

SEQUENCE LISTING

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REBAR, EDWARD J.
LUI, QIANG

<120> ZINC FINGER PROTEIN COMPOSITIONS

<130> 019496-003020US

<140> 09/535,088

<141> 2000-03-23

<150> 60/126,238

<151> 1999-03-24

<150> 60/126,239

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<150> 60/146,596

<151> 1999-07-30

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<170> PatentIn Ver. 2.1

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<223> this region may encompass two to four residues
consisting of any amino acid

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20 25 30

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35 40 45

Thr Arg Ser Asp Glu Leu Gln Arg His Lys Arg Thr His Thr Gly Glu
50 55 60

Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Arg Ser Asp
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 35 40 45
 Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Gln Arg His Gln
 50 55 60
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1 5

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<210> 763

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<220>
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<210> 770
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<210> 772
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<210> 783

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<210> 784

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<210> 785

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<210> 790
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<210> 791
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<210> 792
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<400> 792
Glu Thr Ala Ser Leu Arg Arg
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<210> 793
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<400> 793
Gln Thr Gly Glu Leu Arg Arg
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Arg Ser Asp Asn Leu Thr Arg
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Gln Ser Ala His Leu Ala Arg
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Gln Ser Gly Asn Leu Ala Arg
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Arg Thr Asp His Leu Arg Arg
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Gln Thr Gly His Leu Arg Arg
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Thr Thr Ala Asn Leu Arg Arg
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<400> 812

Gln Thr Gly His Leu Arg Arg
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<210> 813
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<400> 813
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<210> 814
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Thr Thr Ser Asn Leu Arg Arg
1 5

<210> 815
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1 5

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<400> 816
Arg Thr Asp His Leu Arg Lys
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<210> 817
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<400> 817
Thr Thr Gly Glu Leu Arg Arg
1 5

<210> 818
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<210> 819
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<210> 825
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Gln Arg Ala His Leu Ala Arg
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<400> 835

Gln Ser Ser His Leu Thr Arg

1 5

<210> 836

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Asn Ser Ser Ala Leu Thr Arg

1 5

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Gln Ala Gly His Leu Thr Arg

1 5

<210> 838

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<223> Description of Artificial Sequence: example ZFP

<400> 838

Gln Ala Gly His Leu Thr Arg

1 5

<210> 839

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Asp Lys Gly Asn Leu Gln Thr
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<210> 843
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 Gln Asn Ser Ala Met Arg Lys
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Gln Arg Gly Ser Leu Ala Arg
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Gln Asn Ser Ala Met Arg Lys
1 5

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Gln Ser Ala Asn Leu Ala Arg
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<400> 847
Arg Ser Ala Asn Leu Thr Arg
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<400> 848
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1 5

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Gln Ser Gly Asn Leu Ala Arg
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<400> 851
Glu Arg Ser Thr Leu Thr Arg
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<210> 852
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<220>
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<400> 852
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1 5

<210> 977
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1 5

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1 5

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1 5

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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1 5

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1 5

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1 5

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1 5

<210> 993
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1 5

<210> 996
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1 5

<210> 997
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<210> 998
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1 5

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1 5

<210> 1000
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1 5

<210> 1001
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1 5

<210> 1002
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<220>
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1 5

<210> 1003
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<220>
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1 5

<210> 1004
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<220>
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1

5

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<211> 7

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<220>

<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

1

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<210> 1006

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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1

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<211> 7

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<223> Description of Artificial Sequence: example ZFP

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1

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

1

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<223> Description of Artificial Sequence: example ZFP

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1

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1

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1

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1

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1 5

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1 5

<210> 1016
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1 5

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1 5

<210> 1019
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1 5

<210> 1020
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1 5

<210> 1021
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1 5

<210> 1022
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1 5

<210> 1023
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1 5

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<210> 1025
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1 5

<210> 1026
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Glu Ser Ser Asp Leu Gln Arg
1 5

<210> 1027

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1 5

<210> 1028
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1 5

<210> 1029
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<210> 1030
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Gln Arg Ser Asn Leu Val Arg
1 5

<210> 1031
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Gln Arg Ser Asn Leu Val Arg
1 5

<210> 1032
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Asp Lys Gly Asn Leu Gln Ser
1 5

<210> 1033
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Asp Lys Gly Asn Leu Gln Ser
1 5

<210> 1034
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Arg Ser Asp His Leu Thr Arg
1 5

<210> 1035
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1 5

<210> 1036
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<223> Description of Artificial Sequence: example ZFP

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1 5

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1 5

<210> 1039
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1 5

<210> 1040
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1 5

<210> 1041

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<210> 1043

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<210> 1044

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Thr Ser Gly His Leu Thr Arg
1 5

<210> 1045
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1 5

<210> 1046
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1 5

<210> 1047
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1 5

<210> 1048
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<210> 1049
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1 5

<210> 1053
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1 5

<210> 1054
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1 5

<210> 1055
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1 5

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1 5

<210> 1057
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1 5

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1 5

<210> 1059
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<400> 1059
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1 5

<210> 1060
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1 5

<210> 1061
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<400> 1061
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1 5

<210> 1062
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<210> 1063
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1 5

<210> 1065
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<223> Description of Artificial Sequence: example ZFP

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Gln Arg Ala His Leu Ala Arg
1 5

<210> 1066
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<223> Description of Artificial Sequence: example ZFP

<400> 1066
Gln Arg Ala His Leu Ala Arg
1 5

<210> 1067
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<223> Description of Artificial Sequence: example ZFP

<400> 1067

Gln Arg Ala His Leu Ala Arg

1 5

<210> 1068

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 1068

Gln Ser Ser Ala Leu Ala Arg

1 5

<210> 1069

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 1069

Asn Arg Asp Thr Leu Ala Arg

1 5

<210> 1070

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 1070

Gln Ser Ala Asn Leu Ser Arg

1 5

<210> 1071

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 1071

Gln Ser Ala Asn Leu Ser Arg
1 5

<210> 1072

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<223> Description of Artificial Sequence: example ZFP

<400> 1072

Arg Ser Asp Asn Leu Ala Arg
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Asn Arg Asp Asn Leu Ser Arg
1 5

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<223> Description of Artificial Sequence: example ZFP

<400> 1074

Gln Gln Ser Asn Leu Ser Arg
1 5

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<223> Description of Artificial Sequence: example ZFP

<400> 1075

Asn Arg Asp Asn Leu Ala Arg
1 5

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<400> 1076
Asn Arg Asp Asn Leu Ala Arg
1 5

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<400> 1077
Gln Gln Ser Asn Leu Ala Arg
1 5

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<400> 1078
Gln Gln Ser Asn Leu Ala Arg
1 5

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Arg Ser Asp His Leu Thr Thr
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<400> 1080
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1 5

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<400> 1081
Gln Ser Gly Ser Leu Thr Arg
1 5

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<400> 1082
Gln Ser Gly Ser Leu Thr Arg
1 5

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<400> 1083
Arg Ser Asp Glu Leu Thr Arg
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<400> 1084
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 1085

<211> 7
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<400> 1085
Arg Ser Asp Glu Leu Thr Arg
1 5

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<400> 1086
Asn Arg Ser His Leu Ala Arg
1 5

<210> 1087
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<400> 1087
Gln Ala Ser His Leu Ala Arg
1 5

<210> 1088
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1 5

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1 5

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1 5

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1 5

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<223> Description of Artificial Sequence: example ZFP

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Gln Ser Gly Asn Leu Ser Arg

1 5

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<223> Description of Artificial Sequence: example ZFP

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Gln Ser Ala Asn Leu Gln Arg

1 5

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<400> 1146
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<210> 1149
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Arg Ser Asp Thr Leu Lys Lys
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Arg Ser Asp Thr Leu Lys Lys
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<210> 1187

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1 5

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Arg Ser Asp Ala Leu Thr Arg
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1 5

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Asp Arg Ser His Leu Ala Arg
1 5

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1 5

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<223> Description of Artificial Sequence: example ZFP

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1 5

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Thr Ser Ala Asn Leu Ser Arg

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<210> 1234

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<223> Description of Artificial Sequence: example ZFP

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<210> 1235

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<223> Description of Artificial Sequence: example ZFP

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<210> 1236

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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1

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<223> Description of Artificial Sequence: example ZFP

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Asp Lys Gly Asn Leu Gln Thr

1

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1

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1

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<223> Description of Artificial Sequence: example ZFP

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1

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<223> Description of Artificial Sequence: example ZFP

<400> 1243

Thr Ser Gly His Leu Thr Arg

1

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<210> 1244

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 1244

Thr Ser Gly His Leu Thr Arg

1

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<210> 1245

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Asp Lys Gly Asn Leu Gln Thr
1 5

<210> 1246

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 1246

Gln Ser Ala Ser Leu Thr Arg
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<210> 1247

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<223> Description of Artificial Sequence: example ZFP

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Gln Ser Gly Asn Leu Thr Arg
1 5

<210> 1248

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Gln Ser Gly Asn Leu Thr Arg
1 5

<210> 1249

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp His Leu Ser Lys
1 5

<210> 1250

<211> 7

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<220>
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1 5

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<220>
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<210> 1252
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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp His Leu Thr Thr
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<210> 1253
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<210> 1254
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<220>
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<210> 1255
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<220>
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<210> 1256
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<220>
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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 1259

<211> 7
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<210> 1260
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10

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10

<210> 1263
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DNA

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gaggaggtga 10

<210> 1264
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<220>
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DNA

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gaggaggtga 10

<210> 1265
<211> 10
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DNA

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gcggaggcgc 10

<210> 1266
<211> 10
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 1266
gcggaggacc 10

<210> 1267
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DNA

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gacgtggagg 10

<210> 1268
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aaggagtcgc

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gtggaggcca

10

<210> 1270
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DNA

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atggattcag

10

<210> 1271
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gggggagctg

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<210> 1272
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gggggagctg

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gaggtgggct

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<210> 1278
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 caggctgtgg 10

<210> 1279
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<210> 1280
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 tcagtggat 10

<210> 1281
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tcagtggat 10

<210> 1282
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tcggacgtgg 10

<210> 1283
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ggggaggccc 10

<210> 1284
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DNA

<400> 1284
gcggcgtcgg 10

<210> 1285
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DNA

<400> 1285
ggggccctgg 10

<210> 1286
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DNA

<400> 1286
gaatgggcag 10

<210> 1287
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DNA

<400> 1287
gcgggtgtct 10

<210> 1288
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DNA

<400> 1288
ggggaggccc 10

<210> 1289
<211> 10
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DNA

<400> 1289
agagcggcac 10

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<210> 1291

<211> 10

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DNA

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<210> 1292

<211> 10

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<220>

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DNA

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10

<210> 1293

<211> 10

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DNA

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<210> 1294

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DNA

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gcagcggctc

10

<210> 1295

<211> 10

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DNA

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gacgagtcgg

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<210> 1296

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<212> DNA

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<223> Description of Artificial Sequence: example target
DNA

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gctgcaggag

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<210> 1297

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DNA

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gagatggatc

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<210> 1298

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agagcggcac

10

<210> 1299

<211> 10

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DNA

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gcggggtccg

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<210> 1300

<211> 10

<212> DNA

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10

<210> 1301

<211> 10

<212> DNA

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DNA

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gactaggacc

10

<210> 1302

<211> 10

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DNA

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gctgcaggag

10

<210> 1303

<211> 10

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DNA

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DNA

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tagggagcgt

10

<210> 1305
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DNA

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gaatgggcag

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<210> 1306
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<400> 1306
gactaggacc

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<210> 1307
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<220>
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DNA

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DNA

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DNA

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DNA

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10

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DNA

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10

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DNA

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DNA

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ttggcagcct 10

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DNA

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gcagcggtag 10

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DNA

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gagtgtgagg 10

<210> 1324
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gagtgtgagg 10

<210> 1325
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DNA

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ggagagtcgg 10

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DNA

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ggagagtcgg 10

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DNA

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<210> 1371
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<210> 1382
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<210> 1426
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<210> 1427
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<210> 1428
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<210> 1429
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1 5

<210> 1443
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1 5

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1 5

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ser Arg
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<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Gln Gln Ser Asn Leu Val Arg
1 5

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Glu Arg Gln His Leu Ala Thr
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1 5

<210> 1569
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<220>
<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 1570
<211> 7
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<220>
<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 1571
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 1572
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<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp His Leu Thr Ala
1 5

<210> 1573
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<220>
<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 1574
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<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ser Leu Thr Lys
1 5

<210> 1575
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<220>
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1 5

<210> 1576
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<220>
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1 5

<210> 1577
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<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 1578
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1 5

<210> 1579
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1 5

<210> 1580
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1 5

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<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 1582

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<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 1583

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<223> Description of Artificial Sequence: example ZFP

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1 5

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<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Gln Arg Ala His Leu Ala Arg

1

5

<210> 1585

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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1

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<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Asn Leu Gln Arg

1

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<210> 1587

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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1

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<212> PRT

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Thr Leu Thr Gln

1

5

<210> 1589

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<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 1590

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

1 5

<210> 1591

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

1 5

<210> 1592

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<212> PRT

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

1 5

<210> 1593

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg
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<210> 1594

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Gln Ser Gly Asp Leu Arg Thr
1 5

<210> 1595

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Thr Gln
1 5

<210> 1596

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: example ZFP

<400> 1596

Arg Ser Asp Ala Leu Arg Glu
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<210> 1597

<211> 7

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 1597

Arg Ser Asp Asn Leu Thr Gln
1 5

<210> 1598

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 1598

Arg Ser Asp Thr Leu Thr Gln
1 5

<210> 1599

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: example ZFP

<400> 1599

Arg Ser Asp Ala Leu Arg Glu
1 5

<210> 1600

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 1600

Arg Ser Asp Ala Leu Arg Glu
1 5

<210> 1601

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 1601

Arg Ser Asp Ala Leu Arg Glu
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<210> 1602

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example ZFP

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 1 5

<210> 1603
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 <212> PRT
 <213> Artificial Sequence

<220>
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 Arg Ser Asp His Leu Ser Arg
 1 5

<210> 1604
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<220>
 <223> Description of Artificial Sequence: example ZFP

<400> 1604
 Gln Ser Ser Asp Leu Ser Arg
 1 5

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 aaggtggcag 10

<210> 1606
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<220>
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 DNA

<400> 1606
 ttggctgggc 10

<210> 1607

<211> 10
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<220>
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DNA

<400> 1607
gtggctgcag 10

<210> 1608
<211> 10
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<220>
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DNA

<400> 1608
gtggctgcag 10

<210> 1609
<211> 10
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<220>
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DNA

<400> 1609
ttggctgggc 10

<210> 1610
<211> 10
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 1610
ttggctgggc 10

<210> 1611
<211> 10
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<220>
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DNA

<400> 1611
gaggaggatg

10

<210> 1612
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DNA

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aagggggggg

9

<210> 1613
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<220>
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DNA

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aagggggggg

9

<210> 1614
<211> 9
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<220>
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DNA

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aagggggggg

9

<210> 1615
<211> 9
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<220>
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DNA

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aagggggggg

9

<210> 1616
<211> 9
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DNA

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aagggggggg

9

<210> 1617
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<220>
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DNA

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acggatgtct

10

<210> 1618
<211> 10
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<220>
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DNA

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ttgtagggga

10

<210> 1619
<211> 10
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<220>
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DNA

<400> 1619
ttgtagggga

10

<210> 1620
<211> 10
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<220>

<223> Description of Artificial Sequence: example target
DNA

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cggggagagt

10

<210> 1621
<211> 10
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<220>
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DNA

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ttggtggaag

10

<210> 1622
<211> 10
<212> DNA
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<220>
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DNA

<400> 1622
ttggtggaag

10

<210> 1623
<211> 10
<212> DNA
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DNA

<400> 1623
gttgtggaat

10

<210> 1624
<211> 10
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DNA

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taggaggctg

10

<210> 1625
<211> 10
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DNA

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taggaggctg 10

<210> 1626
<211> 10
<212> DNA
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<220>
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DNA

<400> 1626
taggcataaa 10

<210> 1627
<211> 10
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<220>
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DNA

<400> 1627
taggcataaa 10

<210> 1628
<211> 10
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DNA

<400> 1628
taggcataaa 10

<210> 1629
<211> 10
<212> DNA
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DNA

<400> 1629
taggcataaa 10

<210> 1630
<211> 10
<212> DNA
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<220>
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DNA

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gagggagttc 10

<210> 1631
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DNA

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gagggagttc 10

<210> 1632
<211> 10
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DNA

<400> 1632
gcggagggcgc 10

<210> 1633
<211> 10
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<220>
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DNA

<400> 1633
aaggcggaga 10

<210> 1634
<211> 10
<212> DNA
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<220>
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DNA

<400> 1634
aaggcggaga 10

<210> 1635
<211> 10
<212> DNA
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<220>
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DNA

<400> 1635
aaggcggaga 10

<210> 1636
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<212> DNA
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<220>
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DNA

<400> 1636
aaggcggaga 10

<210> 1637
<211> 10
<212> DNA
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DNA

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gggggcgagc 10

<210> 1638
<211> 10
<212> DNA
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DNA

<400> 1638
tgagcggcgg 10

<210> 1639
<211> 10
<212> DNA
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DNA

<400> 1639
tgagcggcgg 10

<210> 1640
<211> 10
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DNA

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gcggcggcag 10

<210> 1641
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DNA

<400> 1641
gcggcggcag 10

<210> 1642
<211> 10
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gcagcggagc

10

<210> 1643

<211> 10

<212> DNA

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gcagcggagc

10

<210> 1644

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

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aaggtggcag

10

<210> 1645

<211> 10

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
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ggggtggggc

10

<210> 1646

<211> 10

<212> DNA

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<223> Description of Artificial Sequence: example target
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ggggtggggc

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<210> 1647

<211> 9

<212> DNA

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<223> Description of Artificial Sequence: example target
DNA

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gagtcggaa

9

<210> 1648

<211> 9

<212> DNA

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<220>

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DNA

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gagtcggaa

9

<210> 1649

<211> 9

<212> DNA

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DNA

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gagtcggaa

9

<210> 1650

<211> 9

<212> DNA

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DNA

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gagtcggaa

9

<210> 1651

<211> 10

<212> DNA

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<223> Description of Artificial Sequence: example target
DNA

<400> 1651
ggtgaggagt

10

<210> 1652
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DNA

<400> 1652
ggtgaggagt

10

<210> 1653
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DNA

<400> 1653
tgggtcgcgg

10

<210> 1654
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DNA

<400> 1654
tgggtcgcgg

10

<210> 1655
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 1655
ttgggagcac

10

<210> 1656
<211> 10

<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 1656
ttgggagcac

10

<210> 1657
<211> 10
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<220>

<223> Description of Artificial Sequence: example target
DNA

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ttgggagcac

10

<210> 1658
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DNA

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ggcatggtgg

10

<210> 1659
<211> 10
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<223> Description of Artificial Sequence: example target
DNA

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gaagaggatg

10

<210> 1660
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DNA

<400> 1660
atgggggtgg 10

<210> 1661
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DNA

<400> 1661
ggcatggtgg 10

<210> 1662
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DNA

<400> 1662
gcttgagtta 10

<210> 1663
<211> 10
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DNA

<400> 1663
gaagaggatg 10

<210> 1664
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DNA

<400> 1664
gcggtggctc 10

<210> 1665

<211> 10
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 DNA

<400> 1665
 ggtgaggagt 10

<210> 1666
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 DNA

<400> 1666
 ggaggggagt 10

<210> 1667
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<220>
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 DNA

<400> 1667
 tgggtcgcgg 10

<210> 1668
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 DNA

<400> 1668
 gtgggggaga 10

<210> 1669
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<220>
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DNA

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gcgggtgggg 10

<210> 1670
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DNA

<400> 1670
gcgggtgggg 10

<210> 1671
<211> 10
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<220>
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DNA

<400> 1671
ggggctgggt 10

<210> 1672
<211> 10
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<220>
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DNA

<400> 1672
gcggtggctc 10

<210> 1673
<211> 10
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<220>
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DNA

<400> 1673
gaggtgggga 10

<210> 1674
<211> 10
<212> DNA
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<220>
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DNA

<400> 1674
ggaggggagt 10

<210> 1675
<211> 10
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 1675
aaggtggcag 10

<210> 1676
<211> 10
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<220>
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DNA

<400> 1676
aaggctgaga 10

<210> 1677
<211> 10
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 1677
acgggggttat 10

<210> 1678
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 1678
acggggttat

10

<210> 1679
<211> 10
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<220>
<223> Description of Artificial Sequence: example target
DNA

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acggggttat

10

<210> 1680
<211> 10
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DNA

<400> 1680
acggggttat

10

<210> 1681
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<220>
<223> Description of Artificial Sequence: example target
DNA

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ctggaagcat

10

<210> 1682
<211> 10
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DNA

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ctattttggg

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<210> 1683
<211> 10
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DNA

<400> 1683
ttggacggcg 10

<210> 1684
<211> 10
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DNA

<400> 1684
ttggacggcg 10

<210> 1685
<211> 10
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 1685
gagggagcga 10

<210> 1686
<211> 10
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<220>
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DNA

<400> 1686
ggtgaggagt 10

<210> 1687
<211> 10
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<220>
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DNA

<400> 1687
gaggtgggga 10

<210> 1688
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<220>
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DNA

<400> 1688
cgggcggctg 10

<210> 1689
<211> 10
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<220>
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DNA

<400> 1689
cgggcggctg 10

<210> 1690
<211> 10
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DNA

<400> 1690
ttggacggcg 10

<210> 1691
<211> 10
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DNA

<400> 1691
ttggacggcg 10

<210> 1692
<211> 10
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<223> Description of Artificial Sequence: example target
DNA

<400> 1692
gcggtggctc 10

<210> 1693
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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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1 5

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1 5

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<210> 1756
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<210> 1757
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<210> 1769

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<210> 1771

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<223> Description of Artificial Sequence: example ZFP

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<211> 7

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<210> 1773
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<210> 1774
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<400> 1774
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1 5

<210> 1775
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<400> 1775
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<210> 1776
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1 5

<210> 1777
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<400> 1777
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1 5

<210> 1778
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<400> 1778
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1 5

<210> 1779
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<400> 1779
Gln Arg Gly Ala Leu Ala Ser
1 5

<210> 1780
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<400> 1780
Gln Arg Gly Ala Leu Ala Ser
1 5

<210> 1781

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<400> 1781
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1 5

<210> 1782
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<400> 1782
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<210> 1783
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<400> 1783
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1 5

<210> 1784
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1 5

<210> 1785
<211> 7
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<400> 1785
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1 5

<210> 1786
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<400> 1786
Asp Arg Ser His Leu Thr Arg
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<400> 1787
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<210> 1789
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<400> 1790
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1 5

<210> 1791
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1 5

<210> 1792
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<210> 1793
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<400> 1793
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1 5

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Gln Ser Ser Asp Leu Gln Arg
1 5

<210> 1795

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Gln Ser Gly Ser Leu Thr Arg
1 5

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1 5

<210> 1800
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1 5

<210> 1801
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1 5

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<210> 1803
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<223> Description of Artificial Sequence: example ZFP

<400> 1803
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<210> 1804
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<210> 1810
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1 5

<210> 1811
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Gln Ser Ser Asp Leu Gln Arg
1 5

<210> 1812
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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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1 5

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1 5

<210> 1839

<211> 7
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<210> 1842
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<210> 1843
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1 5

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1 5

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<210> 1847
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<210> 1849
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<210> 1851
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<210> 1852
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<223> Description of Artificial Sequence: example ZFP

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Arg Lys Asp Val Leu Val Ser
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<210> 1853

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<210> 1854

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<210> 1855

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<223> Description of Artificial Sequence: example ZFP

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1 5

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<210> 1858
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<210> 1859
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<210> 1861
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<210> 1866
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1 5

<210> 1867
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<210> 1868
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Gln Ser Ser Asp Leu Ser Arg

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ser Arg

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<210> 1877

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Arg Ser Asp His Leu Ser Arg

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<223> Description of Artificial Sequence: example ZFP

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Gln Ser Gly Asn Leu Ala Arg
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<210> 1886

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Gln Ser Ser Ala Leu Arg Thr
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<210> 1887

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<223> Description of Artificial Sequence: example ZFP

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Asp Arg Ser Asn Leu Glu Arg
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<210> 1910
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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp His Leu Thr Thr
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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ser Leu Thr Lys
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<210> 1913

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Arg Ser Asp Ala Leu Ala Arg
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<210> 1917
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Arg Ser Asp Asn Leu Gln Arg
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<210> 1918
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Arg Lys Asp Asn Met Thr Ala
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<210> 1919
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Arg Lys Asp Asn Met Thr Gln
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<210> 1920
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Arg Lys Asp Asn Met Thr Asn
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Arg Leu Asp Asn Arg Thr Ala
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<210> 1922
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<400> 1922
Arg Leu Asp Asn Arg Thr Gln
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<210> 1923
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Arg Ser Asp Thr Leu Arg Ser
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<210> 1925
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<210> 1926
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Arg Ser Asp His Leu Arg Glu
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<210> 1927
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<210> 1928
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<210> 1929
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<210> 1930
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<210> 1931
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<210> 1932
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9

<210> 2057

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2057
gaggccgca

9

<210> 2058
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DNA

<400> 2058
gtgggcgcc

9

<210> 2059
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2059
gtgggcgcc

9

<210> 2060
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2060
gtgggcgcc

9

<210> 2061
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DNA

<400> 2061
gccgcggtc

9

<210> 2062
<211> 9

<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2062
gccgcggtc

9

<210> 2063
<211> 9
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2063
caggccgct

9

<210> 2064
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<220>

<223> Description of Artificial Sequence: example target
DNA

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caggccgct

9

<210> 2065
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2065
ctggcagtg

9

<210> 2066
<211> 9
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2066
ctggcagtg

9

<210> 2067
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<220>
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DNA

<400> 2067
ctggcggcg

9

<210> 2068
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2068
ctggcggcg

9

<210> 2069
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<220>
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DNA

<400> 2069
caggcggcg

9

<210> 2070
<211> 9
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<220>
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DNA

<400> 2070
ccgggctgg

9

<210> 2071

<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

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ccgggctgg

9

<210> 2072
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

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gacggcgag

9

<210> 2073
<211> 9
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<220>
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DNA

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gacggcgag

9

<210> 2074
<211> 9
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<220>
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DNA

<400> 2074
ggtgctgat

9

<210> 2075
<211> 9
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<220>
<223> Description of Artificial Sequence: example target

DNA

<400> 2075
ggtgctgat

9

<210> 2076
<211> 9
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<220>
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DNA

<400> 2076
ggtgctgat

9

<210> 2077
<211> 9
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<220>
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DNA

<400> 2077
ggtgagggg

9

<210> 2078
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2078
aaggtgggc

9

<210> 2079
<211> 9
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<220>
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DNA

<400> 2079
aaggtgggc

9

<210> 2080
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2080
ggggctggg

9

<210> 2081
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

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gggggctgg

9

<210> 2082
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2082
ggggaggaa

9

<210> 2083
<211> 9
<212> DNA
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<220>
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DNA

<400> 2083
cagttggtc

9

<210> 2084
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2084
agagaggct

9

<210> 2085
<211> 9
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<220>
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DNA

<400> 2085
acgtagtag

9

<210> 2086
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2086
agagaggct

9

<210> 2087
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2087
cagttggtc

9

<210> 2088
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2088
ggagctgac

9

<210> 2089
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DNA

<400> 2089
gcggaggag

9

<210> 2090
<211> 9
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<220>
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DNA

<400> 2090
acgtagtag

9

<210> 2091
<211> 9
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<220>
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DNA

<400> 2091
acgtagtag

9

<210> 2092
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2092
gtaggggcg

9

<210> 2093
<211> 9
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<220>
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DNA

<400> 2093
gagagagat

9

<210> 2094
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2094
gagatggag

9

<210> 2095
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2095
gagatggag

9

<210> 2096
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2096
gagagagat

9

<210> 2097
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2097
ttggtggcg

9

<210> 2098
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2098
gacgtaggg

9

<210> 2099
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2099
gagagagat

9

<210> 2100
<211> 9
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<220>
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DNA

<400> 2100
gacgtaggg

9

<210> 2101
<211> 9
<212> DNA
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<220>
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DNA

<400> 2101
gcggaggag

9

<210> 2102
<211> 9
<212> DNA
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<220>
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DNA

<400> 2102
cagttggtc

9

<210> 2103
<211> 9
<212> DNA
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<220>
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DNA

<400> 2103
ctggatgac

9

<210> 2104
<211> 9
<212> DNA
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<220>
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DNA

<400> 2104
gtagtagaa

9

<210> 2105
<211> 9
<212> DNA
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<220>
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DNA

<400> 2105
agggaggag

9

<210> 2106
<211> 9
<212> DNA
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<220>
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DNA

<400> 2106

acgtagtag

9

<210> 2107

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2107

gaggaggtg

9

<210> 2108

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2108

ggggaggaa

9

<210> 2109

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2109

gaggaggtg

9

<210> 2110

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2110

gtggcttgt

9

<210> 2111

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2111

gcggcggtg

9

<210> 2112

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2112

ggtgctgat

9

<210> 2113

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2113

gtgttcgtg

9

<210> 2114

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2114

gtgttcgtg

9

<210> 2115

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2115
gtgttcgtg

9

<210> 2116
<211> 9
<212> DNA
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<220>
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DNA

<400> 2116
gtaggggca

9

<210> 2117
<211> 9
<212> DNA
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<220>
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DNA

<400> 2117
gtaggggca

9

<210> 2118
<211> 9
<212> DNA
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<220>
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DNA

<400> 2118
ggggctggg

9

<210> 2119
<211> 9
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DNA

<400> 2119
ggggctggg

9

<210> 2120
<211> 9

<212> DNA
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DNA

<400> 2120
tcatagtag

9

<210> 2121
<211> 9
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<220>

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DNA

<400> 2121
caggagag

9

<210> 2122
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2122
caggagag

9

<210> 2123
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2123
ggggcagga

9

<210> 2124
<211> 9
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<223> Description of Artificial Sequence: example target
DNA

<400> 2124
ggggcagga

9

<210> 2125
<211> 9
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DNA

<400> 2125
ggggcagga

9

<210> 2126
<211> 9
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DNA

<400> 2126
caggctgta

9

<210> 2127
<211> 9
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DNA

<400> 2127
caggctgta

9

<210> 2128
<211> 9
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DNA

<400> 2128
caggctgta

9

<210> 2129

<211> 9
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<220>

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DNA

<400> 2129
gaggctgag

9

<210> 2130
<211> 9
<212> DNA
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DNA

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taggacggg

9

<210> 2131
<211> 9
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<220>

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DNA

<400> 2131
taggacggg

9

<210> 2132
<211> 9
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<223> Description of Artificial Sequence: example target
DNA

<400> 2132
gctgcaggg

9

<210> 2133
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target

DNA

<400> 2133
gctgcaggg

9

<210> 2134
<211> 9
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<220>
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DNA

<400> 2134
gctgcaggg

9

<210> 2135
<211> 9
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<220>
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DNA

<400> 2135
gctgcaggg

9

<210> 2136
<211> 9
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<220>
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DNA

<400> 2136
ggggccgcg

9

<210> 2137
<211> 9
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<220>
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DNA

<400> 2137
ggggccgcg

9

<210> 2138
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2138
gcggaggcc

9

<210> 2139
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2139
gttgcgggg

9

<210> 2140
<211> 9
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<220>
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DNA

<400> 2140
gttgcgggg

9

<210> 2141
<211> 9
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<220>
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DNA

<400> 2141
gttgcgggg

9

<210> 2142
<211> 9
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2142
gcggcagtg

9

<210> 2143
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2143
tggggcggg

9

<210> 2144
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2144
gagggcggt

9

<210> 2145
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2145
gagggcggt

9

<210> 2146
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2146
gcagggggc

9

<210> 2147
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2147
gcaggcggt

9

<210> 2148
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2148
gggggcaggc

9

<210> 2149
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2149
gggggcaggc

9

<210> 2150
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2150
ggattggct

9

<210> 2151
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2151
ggattggct

9

<210> 2152
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2152
gtggtggcg

9

<210> 2153
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2153
gcggcagcg

9

<210> 2154
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2154
gcggcagcg

9

<210> 2155
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2155
ggggggggcc

9

<210> 2156
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2156
ggggggggcc

9

<210> 2157
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2157
ctggaggcg

9

<210> 2158
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2158
ggggagggtg

9

<210> 2159
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2159
ctggcggcg

9

<210> 2160
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2160
ctggtggca

9

<210> 2161
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2161
ggtgagggcg

9

<210> 2162
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2162
ggtgagggcg

9

<210> 2163
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2163
ggggctggg

9

<210> 2164
<211> 9
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<220>
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DNA

<400> 2164

cgggcggcc

9

<210> 2165

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2165

cgggcggcc

9

<210> 2166

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2166

gacgaggct

9

<210> 2167

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2167

aaggcgctg

9

<210> 2168

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2168

gtagaggac

9

<210> 2169

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2169

gccttggt

9

<210> 2170

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2170

gcggagtcg

9

<210> 2171

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2171

gcggttggt

9

<210> 2172

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2172

gggggagcc

9

<210> 2173

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2173
gggggagcc

9

<210> 2174
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2174
gaggccgaa

9

<210> 2175
<211> 9
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2175
gccggggag

9

<210> 2176
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2176
gcggagtcg

9

<210> 2177
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2177
gtgttgga

9

<210> 2178
<211> 9

<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2178
atgggagtt

9

<210> 2179
<211> 9
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2179
aaggcagaa

9

<210> 2180
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2180
aaggcagaa

9

<210> 2181
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2181
cgggcagct

9

<210> 2182
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2182
ctggcagcc

9

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ctggcagcc

9

<210> 2184
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DNA

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gcgggagtt

9

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DNA

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caggctgga

9

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DNA

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aggggagcc

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DNA

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DNA

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ctggtaggg

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DNA

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ctggtaggg

9

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DNA

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ctgggggca

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DNA

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DNA

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DNA

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DNA

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9

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DNA

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tagggagtc

9

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DNA

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tgggaggggt

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DNA

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agggacgcg

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DNA

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ctggtggcc

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DNA

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taggaagca

9

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DNA

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gtggatgga

9

<210> 2202
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DNA

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ttggctatg

9

<210> 2203
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DNA

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caggggggtt

9

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DNA

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aaggtcgcc

9

<210> 2205
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DNA

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ggtgcagac

9

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DNA

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gtgggagcc

9

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DNA

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ggggctgga

9

<210> 2208
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DNA

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ggggctgga

9

<210> 2209
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DNA

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tgggggtgg 9

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<220>
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DNA

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gcggcgggg 9

<210> 2211
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DNA

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ccgggagtg 9

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DNA

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ccgggagtg 9

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DNA

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caggggta 9

<210> 2214
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DNA

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acggccgag

9

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DNA

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aagggtgcg

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DNA

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atggacttg

9

<210> 2217
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<220>
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DNA

<400> 2217
ttggaggag

9

<210> 2218
<211> 9
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<220>
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DNA

<400> 2218
ttggaggag

9

<210> 2219
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<220>
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DNA

<400> 2219
gaagaggca

9

<210> 2220
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<220>
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DNA

<400> 2220
gtagtatgg

9

<210> 2221
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<220>
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DNA

<400> 2221
aaggctgga

9

<210> 2222
<211> 9
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<220>
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DNA

<400> 2222

aaggctgga

9

<210> 2223

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2223

ctggcgtag

9

<210> 2224

<211> 9

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<220>

<223> Description of Artificial Sequence: example target
DNA

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atggttgaa

9

<210> 2225

<211> 9

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2225

atggttgaa

9

<210> 2226

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2226

aggggagaa

9

<210> 2227

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2227

aggggagaa

9

<210> 2228

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2228

tggaagggc

9

<210> 2229

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2229

gagggccggc

9

<210> 2230

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2230

gtgttggtta

9

<210> 2231

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2231
gtgtgagcc

9

<210> 2232
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<220>
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DNA

<400> 2232
gtgtgagcc

9

<210> 2233
<211> 9
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<220>
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DNA

<400> 2233
gcgaaggtg

9

<210> 2234
<211> 9
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<220>
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DNA

<400> 2234
gcgaaggtg

9

<210> 2235
<211> 9
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2235
gcgaaggtg

9

<210> 2236
<211> 9

<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2236
aaggcgctg

9

<210> 2237
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2237
gtagaggac

9

<210> 2238
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2238
gccttggt

9

<210> 2239
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2239
gcggagtcg

9

<210> 2240
<211> 9
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2240
gccgggggag

9

<210> 2241
<211> 9
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<220>
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DNA

<400> 2241
gctgaaggg

9

<210> 2242
<211> 9
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<220>
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DNA

<400> 2242
gctgaaggg

9

<210> 2243
<211> 9
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<220>
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DNA

<400> 2243
aaggtcgcc

9

<210> 2244
<211> 9
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<220>
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DNA

<400> 2244
gtgggagcc

9

<210> 2245

<211> 9
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<220>
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DNA

<400> 2245
ccgggcgca

9

<210> 2246
<211> 9
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<220>
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DNA

<400> 2246
gaggatggc

9

<210> 2247
<211> 9
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<220>
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DNA

<400> 2247
gcagcgcag

9

<210> 2248
<211> 9
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<220>
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DNA

<400> 2248
aaggaaaga

9

<210> 2249
<211> 9
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<220>
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DNA

<400> 2249
ttggctatg

9

<210> 2250
<211> 9
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<220>
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DNA

<400> 2250
caggaaggc

9

<210> 2251
<211> 9
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<220>
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DNA

<400> 2251
caggaaggc

9

<210> 2252
<211> 9
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<220>
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DNA

<400> 2252
aaggaaaga

9

<210> 2253
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<220>
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DNA

<400> 2253
aaggaaaga

9

<210> 2254
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DNA

<400> 2254
gccgaggtg

9

<210> 2255
<211> 9
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DNA

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ctggtgggc

9

<210> 2256
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DNA

<400> 2256
gtagtatgg

9

<210> 2257
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DNA

<400> 2257
atggttgaa

9

<210> 2258
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<220>

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DNA

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atggcagtg

9

<210> 2259
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DNA

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atggcagtg

9

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DNA

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atggcagtg

9

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<211> 9
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DNA

<400> 2261
atggcagtg

9

<210> 2262
<211> 9
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DNA

<400> 2262
gagaaggtg

9

<210> 2263
<211> 9
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DNA

<400> 2263
gagaaggtg

9

<210> 2264
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<220>
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DNA

<400> 2264
gaaggtgcc

9

<210> 2265
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DNA

<400> 2265
atggagaag

9

<210> 2266
<211> 9
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<220>
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DNA

<400> 2266
atggagaag

9

<210> 2267
<211> 9
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2267

atggagaag

9

<210> 2268

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2268

ctggagtac

9

<210> 2269

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2269

ggagtactg

9

<210> 2270

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2270

ggagtactg

9

<210> 2271

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2271

cgggcagct

9

<210> 2272
<211> 9
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<220>
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DNA

<400> 2272
gcgggagtt

9

<210> 2273
<211> 9
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<220>
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DNA

<400> 2273
caggctgga

9

<210> 2274
<211> 9
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<220>
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DNA

<400> 2274
ccggaagcg

9

<210> 2275
<211> 9
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<220>
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DNA

<400> 2275
gcagcgag

9

<210> 2276
<211> 9
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<220>
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DNA

<400> 2276
caggggggtt

9

<210> 2277
<211> 9
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DNA

<400> 2277
gaagaagag

9

<210> 2278
<211> 9
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<220>
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DNA

<400> 2278
atgggagtt

9

<210> 2279
<211> 9
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DNA

<400> 2279
gtgggggct

9

<210> 2280
<211> 9
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DNA

<400> 2280

gaagaggca

9

<210> 2281

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2281

gcggtgagg

9

<210> 2282

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2282

aaggaaagg

9

<210> 2283

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2283

aaggaaagg

9

<210> 2284

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2284

aaggaaagg

9

<210> 2285

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2285

caggagggc

9

<210> 2286

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2286

atggacttg

9

<210> 2287

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2287

atggacttg

9

<210> 2288

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2288

gaatagggg

9

<210> 2289

<211> 9

<212> DNA

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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2289
acggccgag

9

<210> 2290
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2290
aagggtgcg

9

<210> 2291
<211> 9
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DNA

<400> 2291
aagggagac

9

<210> 2292
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2292
aagggagac

9

<210> 2293
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2293
tgggacctg

9

<210> 2294
<211> 9

<212> DNA
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<220>
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DNA

<400> 2294
tgggacctg

9

<210> 2295
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2295
gagtaggca

9

<210> 2296
<211> 9
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<220>
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DNA

<400> 2296
gagtaggca

9

<210> 2297
<211> 9
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<220>
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DNA

<400> 2297
gaaggagag

9

<210> 2298
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2298
ctggatggt

9

<210> 2299
<211> 9
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<220>
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DNA

<400> 2299
caggacgtg

9

<210> 2300
<211> 9
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<220>
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DNA

<400> 2300
ggggaggca

9

<210> 2301
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2301
gaggtgtca

9

<210> 2302
<211> 9
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<220>
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DNA

<400> 2302
ggggttgaa

9

<210> 2303

<211> 9
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<220>
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DNA

<400> 2303
ggggttgaa

9

<210> 2304
<211> 9
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<220>
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DNA

<400> 2304
gtcgcggtg

9

<210> 2305
<211> 9
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<220>
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DNA

<400> 2305
gtcgcggtg

9

<210> 2306
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2306
gtggttgcg

9

<210> 2307
<211> 9
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<220>
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DNA

<400> 2307
gtggttgcg

9

<210> 2308
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2308
gtctaggta

9

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9

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DNA

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9

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DNA

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9

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9

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DNA

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DNA

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9

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DNA

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DNA

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DNA

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ctgttggt 9

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DNA

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ttggatgga 9

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DNA

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gtggcactg 9

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DNA

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9

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DNA

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9

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DNA

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9

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DNA

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9

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DNA

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9

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DNA

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9

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DNA

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9

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DNA

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DNA

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DNA

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gtggtagga

9

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DNA

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taggcagtc

9

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DNA

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gtggtgata

9

<210> 2343

<211> 9

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DNA

<400> 2343

gtggtgata

9

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<211> 9

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<220>

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DNA

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ttggatgga

9

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DNA

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aaggtaggt

9

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DNA

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aaggtaggt

9

<210> 2347

<211> 9

<212> DNA

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<220>

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DNA

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9

<210> 2348
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<220>
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DNA

<400> 2348
caggagtcc

9

<210> 2349
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<220>
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DNA

<400> 2349
taggaagag

9

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<220>
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DNA

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caggacgtg

9

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<220>
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DNA

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gtctaggta

9

<210> 2352
<211> 9

<212> DNA
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<220>
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DNA

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ccggctgga

9

<210> 2353
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<220>
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DNA

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taggagttt

9

<210> 2354
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<220>
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DNA

<400> 2354
ctggccttg

9

<210> 2355
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<220>
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DNA

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tgggcagcc

9

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DNA

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taggagttt

9

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DNA

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taggagttt

9

<210> 2358
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<220>
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DNA

<400> 2358
tgggcagcc

9

<210> 2359
<211> 9
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<220>
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DNA

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ggggcgtga

9

<210> 2360
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<220>
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DNA

<400> 2360
ggggcgtga

9

<210> 2361

<211> 9
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<220>
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DNA

<400> 2361
gtacagtag

9

<210> 2362
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<220>
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DNA

<400> 2362
gtacagtag

9

<210> 2363
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<220>
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DNA

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atggtgtgt

9

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DNA

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9

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DNA

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ttgggagag

9

<210> 2366
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DNA

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ttgggagag

9

<210> 2367
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DNA

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gtgggaata

9

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DNA

<400> 2368
gtgggaata

9

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DNA

<400> 2369
gtgggaata

9

<210> 2370
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<220>
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DNA

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ttggttggt

9

<210> 2371
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DNA

<400> 2371
ttggttggt

9

<210> 2372
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<220>
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DNA

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ttggttggt

9

<210> 2373
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DNA

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ttggttggt

9

<210> 2374
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<220>

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DNA

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ctggcctgg

9

<210> 2375
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DNA

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gaggtgtga

9

<210> 2376
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DNA

<400> 2376
ctggcctgg

9

<210> 2377
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DNA

<400> 2377
ccggcgctg

9

<210> 2378
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DNA

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gacgtggc

9

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DNA

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cgggctgga

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DNA

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cgggctgga

9

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DNA

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gggatggcg

9

<210> 2382
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DNA

<400> 2382
gggatggcg

9

<210> 2383
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DNA

<400> 2383
gggatggcg

9

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DNA

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gggatggcg

9

<210> 2385
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DNA

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cagggcgag

9

<210> 2386
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DNA

<400> 2386
cagggcgag

9

<210> 2387
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DNA

<400> 2387
ccgggagac

9

<210> 2388
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DNA

<400> 2388
gatgtgtga

9

<210> 2389
<211> 9
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<220>
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DNA

<400> 2389
cagtgaatg

9

<210> 2390
<211> 9
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<220>
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DNA

<400> 2390
gggtcactg

9

<210> 2391
<211> 9
<212> DNA
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<220>
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DNA

<400> 2391
cagtgaatg

9

<210> 2392
<211> 9
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<220>
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DNA

<400> 2392
gggtcactg

9

<210> 2393
<211> 9
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<220>
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DNA

<400> 2393
gtgtgggtc

9

<210> 2394
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DNA

<400> 2394
ctggcgaga

9

<210> 2395
<211> 9
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<220>
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DNA

<400> 2395
ctggcgaga

9

<210> 2396
<211> 9
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<220>
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DNA

<400> 2396

gctttggca

9

<210> 2397

<211> 9

<212> DNA

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<223> Description of Artificial Sequence: example target
DNA

<400> 2397

gctttggca

9

<210> 2398

<211> 9

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DNA

<400> 2398

gacttgga

9

<210> 2399

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<220>

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DNA

<400> 2399

gacttgga

9

<210> 2400

<211> 9

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DNA

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cagttgtga

9

<210> 2401

<211> 9

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<213> Artificial Sequence

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DNA

<400> 2401

aaggaaaaa

9

<210> 2402

<211> 9

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<223> Description of Artificial Sequence: example target
DNA

<400> 2402

aaggaaaaa

9

<210> 2403

<211> 9

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<223> Description of Artificial Sequence: example target
DNA

<400> 2403

aaggaaaaa

9

<210> 2404

<211> 9

<212> DNA

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DNA

<400> 2404

atgggtgaa

9

<210> 2405

<211> 9

<212> DNA

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DNA

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atggggtgaa

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<210> 2406
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DNA

<400> 2406
atggggtgaa

9

<210> 2407
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DNA

<400> 2407
atggggtgaa

9

<210> 2408
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<220>
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DNA

<400> 2408
ctgggagat

9

<210> 2409
<211> 9
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<220>
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DNA

<400> 2409
ctgggagat

9

<210> 2410
<211> 9

<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2410
gtggtgggc

9

<210> 2411
<211> 9
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2411
ccggcgggtg

9

<210> 2412
<211> 9
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2412
ccggcgggtg

9

<210> 2413
<211> 9
<212> DNA
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2413
ccggcgggtg

9

<210> 2414
<211> 9
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DNA

<400> 2414
ccggcgggtg

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<210> 2415
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DNA

<400> 2415
ccggcgggtg

9

<210> 2416
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DNA

<400> 2416
ccggcgggtg

9

<210> 2417
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DNA

<400> 2417
gccgacggt

9

<210> 2418
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<220>
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DNA

<400> 2418
gccgacggt

9

<210> 2419

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<220>
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DNA

<400> 2419
gccgacggt

9

<210> 2420
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<220>
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DNA

<400> 2420
gccgacggt

9

<210> 2421
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<220>
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DNA

<400> 2421
ggtgtgggc

9

<210> 2422
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<220>
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DNA

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tgggcaaga

9

<210> 2423
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<220>
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DNA

<400> 2423
tgggcaaga

9

<210> 2424
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<220>
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DNA

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ctggcctgg

9

<210> 2425
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<220>
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DNA

<400> 2425
tgggaagct

9

<210> 2426
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DNA

<400> 2426
tgggaagct

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<210> 2427
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DNA

<400> 2427
gaagagga

9

<210> 2428
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DNA

<400> 2428
gaagagggga

9

<210> 2429
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<220>
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DNA

<400> 2429
gaagagggga

9

<210> 2430
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<220>
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DNA

<400> 2430
taatggggg

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<210> 2431
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<220>
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DNA

<400> 2431
tgggagtgt

9

<210> 2432
<211> 9
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<223> Description of Artificial Sequence: example target
DNA

<400> 2432
ccgggtgag

9

<210> 2433
<211> 9
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<220>
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DNA

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gagttggcc

9

<210> 2434
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<220>
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DNA

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ctggagttg

9

<210> 2435
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9

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DNA

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9

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DNA

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gaggcaggg

9

<210> 2438
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DNA

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gaagcggag

9

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DNA

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9

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DNA

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9

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DNA

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ccggcaggg 9

<210> 2442
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DNA

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ccggcggcg 9

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DNA

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tgaggcgag 9

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ctggccgtg 9

<210> 2445
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DNA

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ctggccgcg 9

<210> 2446
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DNA

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ctggccgcg

9

<210> 2447
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DNA

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gcggccgag

9

<210> 2448
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DNA

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gcggccgag

9

<210> 2449
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DNA

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gagttggcc

9

<210> 2450
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DNA

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ctggagttg

9

<210> 2451
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DNA

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gggtcggcg

9

<210> 2452
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DNA

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gggtcggcg

9

<210> 2453
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DNA

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cagggcccg

9

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DNA

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cagggcccg

9

<210> 2455

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DNA

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tgaggcgag

9

<210> 2456

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DNA

<400> 2456

tgaggcgag

9

<210> 2457

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DNA

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tcggccgcc

9

<210> 2458

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DNA

<400> 2458

tcggccgcc

9

<210> 2459

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<223> Description of Artificial Sequence: example target
DNA

<400> 2459

tcggccgcc

9

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<223> Description of Artificial Sequence: example target
DNA

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ctggccgtg

9

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taatggggg

9

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DNA

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tgggagtgt

9

<210> 2463

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<223> Description of Artificial Sequence: example target
DNA

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ggagtggtta

9

<210> 2464
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DNA

<400> 2464
ggagtggtta

9

<210> 2465
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DNA

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atagctggg

9

<210> 2466
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<220>
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DNA

<400> 2466
tgctgggcc

9

<210> 2467
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<220>
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DNA

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tggaaggaa

9

<210> 2468
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<220>
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DNA

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tggaaggaa

9

<210> 2469
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DNA

<400> 2469
tggaaggaa

9

<210> 2470
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DNA

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tggaaggaa

9

<210> 2471
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DNA

<400> 2471
ggagaggct

9

<210> 2472
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<220>
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DNA

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cgggatgaa

9

<210> 2473
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DNA

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ggagaggct

9

<210> 2474
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<220>
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DNA

<400> 2474
gcagaggaa

9

<210> 2475
<211> 9
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<220>
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DNA

<400> 2475
ttgggggag

9

<210> 2476
<211> 9
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<220>
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DNA

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gacgaggag

9

<210> 2477

<211> 9
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<220>
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DNA

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cgggatgaa

9

<210> 2478
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DNA

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gaggctgtt

9

<210> 2479
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<220>
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DNA

<400> 2479
gacgaggag

9

<210> 2480
<211> 9
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<220>
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DNA

<400> 2480
ctgggagtt

9

<210> 2481
<211> 9
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<220>
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DNA

<400> 2481
ctgggagtt

9

<210> 2482
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<220>
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DNA

<400> 2482
ggtgatgtc

9

<210> 2483
<211> 9
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2483
ggtgatgtc

9

<210> 2484
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2484
ggtgatgtc

9

<210> 2485
<211> 9
<212> DNA
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<220>
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DNA

<400> 2485
ctggttggg

9

<210> 2486
<211> 9
<212> DNA
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<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2486
ttgaagggtt

9

<210> 2487
<211> 9
<212> DNA
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<220>
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DNA

<400> 2487
ttgaagggtt

9

<210> 2488
<211> 9
<212> DNA
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<220>
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DNA

<400> 2488
ttgaagggtt

9

<210> 2489
<211> 9
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<213> Artificial Sequence

<220>
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DNA

<400> 2489
ttgaagggtt

9

<210> 2490
<211> 9
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<220>

<223> Description of Artificial Sequence: example target
DNA

<400> 2490
ttgaaggtt

9

<210> 2491
<211> 9
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<220>
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DNA

<400> 2491
gcagcccg

9

<210> 2492
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example target
DNA

<400> 2492
gaaagttca

9

<210> 2493
<211> 9
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<220>
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DNA

<400> 2493
gaaagttca

9

<210> 2494
<211> 9
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<220>
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DNA

<400> 2494
gaaagttca

9

<210> 2495
<211> 9
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<220>
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DNA

<400> 2495
ccgtgtgac

9

<210> 2496
<211> 9
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<220>
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DNA

<400> 2496
ccgtgtgac

9

<210> 2497
<211> 9
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DNA

<400> 2497
gaagtggta

9

<210> 2498
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DNA

<400> 2498
aagtgagct

9

<210> 2499
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DNA

<400> 2499
gggtttgac

9

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<220>
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DNA

<400> 2500
ttgaagggtt

9

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DNA

<400> 2501
aagtggtag

9

<210> 2502
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DNA

<400> 2502
ctggttggg

9

<210> 2503
<211> 9
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<220>
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DNA

<400> 2503
aagggttca

9

<210> 2504
<211> 9
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<220>
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DNA

<400> 2504
aagtggtag

9

<210> 2505
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DNA

<400> 2505
aagtggtag

9

<210> 2506
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<220>
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DNA

<400> 2506
gggtttgac

9

<210> 2507
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DNA

<400> 2507
ttgggggag

9

<210> 2508
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DNA

<400> 2508
gaggctctt

9

<210> 2509
<211> 9
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DNA

<400> 2509
gaggttgat

9

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DNA

<400> 2510
gaggttgat

9

<210> 2511
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DNA

<400> 2511
gcagaggaa

9

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DNA

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gcaatgggt

<210> 2513

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2513

Arg Ser Asp His Leu Ala Arg

1

5

<210> 2514

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: example ZFP

<400> 2514

Asp Ser Ser Asn Leu Thr Arg

1

5

<210> 2515

<211> 7

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2515

Arg Ser Ser Ala Leu Thr Arg

1

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<210> 2516

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<212> PRT

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<223> Description of Artificial Sequence: example ZFP

<400> 2516

Gln Ser Gly Asp Leu Arg Thr

1

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<210> 2517

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 2517

Gln Ser Gly Asn Leu Ser Arg

1

5

<210> 2518

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: example ZFP

<400> 2518

Gln Ser Ser Asn Leu Ala Arg

1

5

<210> 2519

<211> 7

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2519

Gln Ser Gly Ser Leu Thr Arg

1

5

<210> 2520

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2520

Arg Ser Asp Ser Leu Ala Arg

1

5

<210> 2521

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2521

Arg Ser Asp Asn Leu Thr Gln
1 5

<210> 2522

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: example ZFP

<400> 2522

Arg Ser Asp Asn Leu Arg Gln
1 5

<210> 2523

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: example ZFP

<400> 2523

Gln Ser Gly His Leu Ala Arg
1 5

<210> 2524

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2524

Arg Ser Asp Asn Leu Thr Thr
1 5

<210> 2525

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2525

Gln Ser Ser Ser Leu Val Arg
1 5

<210> 2526

<211> 7

<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2526
Gln Ser Gly Asp Leu Arg Thr
1 5

<210> 2527
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2527
Gln Ser His Asp Leu Thr Lys
1 5

<210> 2528
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2528
Gln Ser His Asp Leu Thr Lys
1 5

<210> 2529
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2529
Arg Ser Asp Ala Leu Thr Arg
1 5

<210> 2530
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2530
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 2531
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2531
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 2532
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2532
Gln Ser Ser Asn Leu Ala Arg
1 5

<210> 2533
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2533
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 2534
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2534
Arg Ser Asp His Leu Ala Arg
1 5

<210> 2535

<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2535
Gln Ser Ala Asn Leu Ala Arg
1 5

<210> 2536
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2536
Gln Ser Ser Asn Leu Ala Arg
1 5

<210> 2537
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2537
Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 2538
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2538
Gln Ser Ser Asp Leu Thr Arg
1 5

<210> 2539
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2539
Gln Ser Ser Asp Leu Arg Arg
1 5

<210> 2540
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2540
Arg Ser Asp His Leu Thr Thr
1 5

<210> 2541
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2541
Arg Ser Asp His Leu Thr Lys
1 5

<210> 2542
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2542
Arg Ser Asp His Leu Ala Arg
1 5

<210> 2543
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2543
Arg Ser Asp His Leu Ala Arg
1 5

<210> 2544
<211> 7
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2544
Arg Ser Asp His Leu Ala Arg
1 5

<210> 2545
<211> 7
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<220>
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<400> 2545
Arg Ser Asp His Leu Ala Arg
1 5

<210> 2546
<211> 7
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2546
Arg Ser Asp Ser Leu Thr Arg
1 5

<210> 2547
<211> 7
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2547
Arg Ser Asp Ser Leu Thr Arg
1 5

<210> 2548
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<212> PRT
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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2548

Arg Ser Asp Ser Leu Thr Arg
1 5

<210> 2549

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2549

Arg Ser Asp Ser Leu Thr Arg
1 5

<210> 2550

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2550

Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 2551

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2551

Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 2552

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: example ZFP

<400> 2552

Arg Ser Asp Ala Leu Ala Arg
1 5

<210> 2553
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2553
Glu Arg Gly Asp Leu Thr Arg
1 5

<210> 2554
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2554
Glu Arg Gly Thr Leu Ala Arg
1 5

<210> 2555
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2555
Asp Arg Ser Ser Leu Thr Arg
1 5

<210> 2556
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2556
Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 2557
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: example ZFP

<400> 2557
Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 2558
<211> 7
<212> PRT
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Arg Ser Asp His Leu Thr Thr

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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1 5

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<223> Description of Artificial Sequence: example ZFP

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Thr Ser Gly Asn Leu Val Arg

1 5

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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Asp Arg Ser His Leu Thr Arg
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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp His Leu Thr Lys
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<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Gln Ser Ala Asn Leu Ala Arg
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<223> Description of Artificial Sequence: example ZFP

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<400> 2588
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1 5

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Arg Ser Asp Asn Leu Val Arg
1 5

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<400> 2590
Arg Ser Ala Asn Leu Arg Thr
1 5

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<400> 2591
Arg Ser Asp Asn Leu Thr Thr
1 5

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Arg Ser Asp Asp Leu Thr Arg
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1 5

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1 5

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Gln Ser Ser Asn Leu Gln Arg
1 5

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1 5

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Arg Ser Asp His Leu Thr Arg
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Gln Ser Ser Asn Leu Gln Arg
1 5

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

<400> 2603
Glu Lys Ala Asn Leu Thr Arg
1 5

<210> 2604
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<220>

<223> Description of Artificial Sequence: example ZFP

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Gln Ser Ala Asn Leu Ala Arg
1 5

<210> 2605
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<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 2606
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<223> Description of Artificial Sequence: example ZFP

<400> 2606

Arg Ser Asp Asn Leu Thr Thr
1 5

<210> 2607

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg
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<210> 2608

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<400> 2608

Gln Ser Ala Asn Leu Ala Arg
1 5

<210> 2609

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<223> Description of Artificial Sequence: example ZFP

<400> 2609

Gln Ser Ser Ala Leu Thr Arg
1 5

<210> 2610

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<223> Description of Artificial Sequence: example ZFP

<400> 2610

Met Ser His His Leu Lys Glu
1 5

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1 5

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Thr Ser Gly Asn Leu Val Arg
1 5

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1 5

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Arg Ser Asp Ala Leu Ala Arg
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Arg Ser Asp Ala Leu Ala Arg

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<210> 2616

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<400> 2616

Gln Ser Gly Ser Leu Thr Arg

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<210> 2617

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<400> 2617

Gln Thr Gly Glu Leu Arg Arg

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Arg Ser Asp His Leu Ser Arg

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<210> 2619

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Arg Ser Asp His Leu Ser Arg

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Gln Ser Gly His Leu Ala Arg

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Gln Arg Ala His Leu Glu Arg

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Gln Arg Ala Ser Leu Ala Arg

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Gln Ser Ser Ser Leu Val Arg

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<210> 2631

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<210> 2632

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<210> 2633

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Arg Ser Asp His Leu Ala Arg
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Arg Ser Asp His Leu Ala Arg
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<210> 2642

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Arg Ser Asp His Leu Ala Arg
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Gln Ser Ser His Leu Thr Arg
1 5

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Thr Ser Gly His Leu Val Arg
1 5

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1 5

<210> 2651

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Gln Ser Ser Asp Leu Thr Arg
1 5

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<400> 2652
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 2653
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Arg Ser Asp Glu Leu Thr Arg
1 5

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Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 2655
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<400> 2656
Glu Arg Gly Asp Leu Thr Arg
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<400> 2657
Arg Ser Asp Glu Leu Thr Arg
1 5

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Arg Ser Asp Ala Leu Thr Arg
1 5

<210> 2659
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Arg Ser Asp Glu Leu Thr Arg
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<400> 2660
Gln Ser Gly Asp Leu Thr Arg
1 5

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Arg Ser Asp Glu Leu Thr Arg
1 5

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<400> 2662
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 2663
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Arg Ser Asp His Leu Ser Arg
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Gln Ser Ser Asp Leu Arg Arg
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Arg Ser Asp Ala Leu Arg Glu
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Asp Arg Ser Asn Leu Thr Arg
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Gln Ser Ser Asp Leu Arg Arg
1 5

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Arg Ser Ala Asp Leu Arg Thr
1 5

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Thr Ser Gly His Leu Val Arg
1 5

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Glu Arg Gly Asp Leu Thr Arg
1 5

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Asp Arg Ser Ser Leu Thr Arg

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Gln Ser Ala Asn Leu Ala Arg

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Arg Ser Asp Asn Leu Thr Arg

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Glu Arg Gly Asp Leu Thr Arg

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<210> 2703
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Arg Ser Asp His Leu Ser Arg

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Gln Ser Gly His Leu Asn Gln

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Lys Asn Trp Lys Leu Gln Ala
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Arg Ser Asp His Leu Thr Thr
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Arg Ser Asp Ala Leu Thr Arg
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Arg Ser Asp Ala Leu Thr Arg
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Gln Ser Ser Asp Leu Arg Arg
1 5

<210> 2772
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Thr Thr Ser Ala Leu Thr Arg
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Gln Arg Ala His Leu Glu Arg
1 5

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Arg Ser Asp Glu Leu Thr Arg
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1 5

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp His Leu Thr Gln
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Arg Ser Asp His Leu Thr Gln
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Arg Ser Asp His Leu Thr Gln
1 5

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Arg Ser Asp Ala Leu Thr Lys
1 5

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Arg Ser Asp His Leu Ser Arg
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Arg Ser Asp Ala Leu Arg Glu
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1 5

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Gln Ser Ala Asn Leu Ser Arg
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1 5

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1 5

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<210> 2963
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Asp Arg Ser Ala Leu Thr Arg

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<210> 2984

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<210> 2987

<211> 7

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<211> 7

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<210> 2989

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1 5

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1 5

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1 5

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1 5

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1 5

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Gln Ser Ser Asp Leu Arg Arg
1 5

<210> 2999

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1 5

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Arg Ser Asp Ser Leu Thr Gln

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Asp Arg Ser Asn Leu Thr Arg
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Gln Ser Gly Ser Leu Thr Arg
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Asp Arg Ser His Leu Ala Arg
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1 5

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Arg Ser Asp Asn Arg Thr Ala
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1 5

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1 5

<210> 3417
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<223> Description of Artificial Sequence: example ZFP

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<210> 3419

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Glu Arg Gly Thr Leu Ala Arg

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<210> 3449

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1 5

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1 5

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Arg Ser Asp Asn Leu Thr Gln

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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<223> Description of Artificial Sequence: example ZFP

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1 5

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1 5

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1 5

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1 5

<210> 3519
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1 5

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1 5

<210> 3521

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1 5

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1 5

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1 5

<210> 3526
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1 5

<210> 3527
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1 5

<210> 3528
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<210> 3530
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<210> 3531
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<210> 3532
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1 5

<210> 3533
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<210> 3534
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<210> 3535

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<223> Description of Artificial Sequence: example ZFP

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Asp Arg Ser Asn Leu Thr Arg
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<210> 3536

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Thr Ser
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<210> 3537

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<223> Description of Artificial Sequence: example ZFP

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<210> 3538

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<223> Description of Artificial Sequence: example ZFP

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1 5

<210> 3539
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1 5

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<400> 3540
Arg Ser Asp His Leu Ser Lys
1 5

<210> 3541
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1 5

<210> 3542
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1 5

<210> 3543
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1 5

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1 5

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1 5

<210> 3546
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1 5

<210> 3547
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Met Ser His His Leu Ser Arg
1 5

<210> 3548
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Gln Ser Ser His Leu Ala Arg
1 5

<210> 3549
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Gln Ser Ser His Leu Ala Arg
1 5

<210> 3550
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1 5

<210> 3551
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Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 3552
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Arg Ser Asp Glu Arg Lys Arg
1 5

<210> 3553
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<400> 3553
Arg Ser Asp Glu Arg Lys Arg
1 5

<210> 3554
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Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 3555
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1 5

<210> 3556
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1

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<400> 3557

Arg Ser Asp Asn Leu Ala Arg

1

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<210> 3558

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

1

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<210> 3559

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

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<210> 3560

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

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<210> 3561

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<223> Description of Artificial Sequence: example ZFP

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Glu Arg Gly Thr Leu Ala Arg
1 5

<210> 3562

<211> 7

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<223> Description of Artificial Sequence: example ZFP

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Asp Arg Ser Asp Leu Thr Arg
1 5

<210> 3563

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Asn Leu Arg Glu
1 5

<210> 3564

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<223> Description of Artificial Sequence: example ZFP

<400> 3564

Arg Ser Asp Asn Leu Arg Glu
1 5

<210> 3565

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Arg Glu
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<210> 3566

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Arg Glu
1 5

<210> 3567

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<223> Description of Artificial Sequence: example ZFP

<400> 3567

Arg Ser Asp Ala Leu Arg Glu
1 5

<210> 3568

<211> 7

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<223> Description of Artificial Sequence: example ZFP

<400> 3568

Arg Ser Asp Ala Leu Arg Glu
1 5

<210> 3569

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<223> Description of Artificial Sequence: example ZFP

<400> 3569

Arg Ser Asp Asn Leu Arg Glu
1 5

<210> 3570

<211> 7

<212> PRT
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Arg Ser Asp Glu Leu Arg Glu
1 5

<210> 3571
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Arg Ser Asp Glu Leu Arg Glu
1 5

<210> 3572
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<400> 3572
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 3573
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<220>
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<400> 3573
Glu Lys Ala Asn Leu Thr Arg
1 5

<210> 3574
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<220>
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Met Ser His His Leu Ser Arg
1 5

<210> 3575
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Thr Ser Gly His Leu Val Arg
1 5

<210> 3576
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Met Ser His His Leu Ser Arg
1 5

<210> 3577
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Met Ser His His Leu Ser Arg
1 5

<210> 3578
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Arg Ser Asp Asn Leu Thr Gln
1 5

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Arg Ser Asp Asn Leu Thr Gln
1 5

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Arg Ser Asp His Leu Ser Arg
1 5

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Arg Ser Asp His Leu Ser Arg
1 5

<210> 3582
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<400> 3582
Arg Ser Asp His Leu Ser Lys
1 5

<210> 3583
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<400> 3583
Arg Ser Asp Asn Leu Arg Glu
1 5

<210> 3584
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Gln Ser Gly His Leu Asn Gln
1 5

<210> 3585
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<400> 3585
Arg Ser Asp Thr Leu Lys Gln
1 5

<210> 3586
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Gln Ser Gly Lys Leu Thr Gln
1 5

<210> 3587
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Arg Ser Asp Asn Leu Arg Glu
1 5

<210> 3588
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Gln Arg Ala His Leu Ala Arg
1 5

<210> 3589
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Arg Ser Asp Glu Arg Lys Arg
1 5

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Arg Ser Asp Thr Leu Arg Ser
1 5

<210> 3591
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<400> 3591
Arg Ser Asp Thr Leu Arg Ser
1 5

<210> 3592
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<223> Description of Artificial Sequence: example ZFP

<400> 3592

Gln Arg Ala Ser Leu Thr Arg
1 5

<210> 3593

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<223> Description of Artificial Sequence: example ZFP

<400> 3593

Arg Leu His Asn Leu Ala Arg
1 5

<210> 3594

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<223> Description of Artificial Sequence: example ZFP

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Arg Leu His Asn Leu Ala Arg
1 5

<210> 3595

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Asn Leu Ser Arg
1 5

<210> 3596

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<223> Description of Artificial Sequence: example ZFP

<400> 3596

Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 3597
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<400> 3597
Arg Ser Asp Ser Leu Thr Lys
1 5

<210> 3598
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1 5

<210> 3599
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Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 3600
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1 5

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<400> 3601
Arg Ser Asp Thr Leu Lys Lys
1 5

<210> 3602
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<400> 3602
Arg Ser Asp Asn Leu Arg Glu
1 5

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<400> 3603
Arg Ser Asp Ala Leu Arg Glu
1 5

<210> 3604
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<400> 3604
Gln Arg Ala Ser Leu Ala Arg
1 5

<210> 3605
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<400> 3605
Arg Ser Asp His Leu Thr Gln
1 5

<210> 3606
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<400> 3606
Arg Ser Asp Thr Leu Lys Gln
1 5

<210> 3607
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<400> 3607
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 3608
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Arg Ser Asp His Leu Ser Arg
1 5

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Arg Ser Asp Thr Leu Thr Gln
1 5

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

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<210> 3611

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Glu Leu Gln Arg

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<210> 3612

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<223> Description of Artificial Sequence: example ZFP

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Thr Ser Gly His Leu Val Arg

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<210> 3613

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<223> Description of Artificial Sequence: example ZFP

<400> 3613

Arg Ser Asp Ala Leu Ala Arg

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<210> 3614

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

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<210> 3615

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Ala Arg

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Gln Arg Ala Ser Leu Ala Arg

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<210> 3617

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<223> Description of Artificial Sequence: example ZFP

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Gln Arg Ala Ser Leu Ala Arg

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Arg Ser Asp His Leu Thr Arg

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<210> 3619

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Arg Ser Asp His Leu Ser Lys

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<210> 3620

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Gln Ser His Asp Leu Thr Lys

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<210> 3621

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Arg Ser Asp Asn Leu Arg Glu

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<210> 3622

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<210> 3732

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Arg Ser Asp Ala Leu Thr Arg

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<210> 3733

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Arg Ser Asp Glu Arg Lys Arg

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<210> 3734

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Arg Ser Ser Asp Arg Lys Arg

1

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<210> 3735

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Arg Ser His Asp Arg Lys Arg

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Asp Arg Ser Asp Leu Thr Arg

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Gln Ser Ser Asp Leu Arg Arg
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<210> 3794

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<210> 3795

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<210> 3797

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<210> 3799

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<210> 3800

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Arg Ser Asp His Leu Ser Arg
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<210> 3801

<211> 7

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1 5

<210> 3802

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1 5

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1 5

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<210> 3812
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1 5

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Arg Ser Asp His Leu Ser Arg
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1 5

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<210> 3825

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<210> 3826

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1 5

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<210> 3835

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1 5

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Arg Ser Asp Asn Leu Thr Lys
1 5

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1 5

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Arg Ser Asp Asn Leu Thr Gln
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Asp Arg Ser Ala Leu Ala Arg

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Arg Ser Asp Thr Leu Arg Glu

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<210> 3864
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<210> 3883

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<210> 3890
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<210> 3891
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<210> 3892
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1 5

<210> 3893
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1 5

<210> 3894
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1 5

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1 5

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1 5

<210> 3899
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1 5

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1

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1

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1

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<210> 3908

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Arg Ser Asp Ala Leu Arg Glu

1

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<210> 3909

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Ala Leu Arg Glu
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<210> 3910

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<223> Description of Artificial Sequence: example ZFP

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<210> 3911

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Glu Leu Arg Glu
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<210> 3912

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Arg Ser Asp Glu Leu Arg Glu
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<210> 3913

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Glu Leu Arg Glu
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<210> 3914

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Arg Ser Asp Asp Leu Arg Glu
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<210> 3915

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Arg Ser Asp Asp Leu Arg Glu
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<210> 3916

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Arg Ser Asp Asp Leu Arg Glu
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<210> 3917

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<400> 3917

Glu Arg Gly Asp Leu Thr Arg
1 5

<210> 3918

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1 5

<210> 3919
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1 5

<210> 3920
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1 5

<210> 3921
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Met Ser His His Leu Ser Arg
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<210> 3922
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1 5

<210> 3923
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1 5

<210> 3924
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Arg Ser Asp Ala Leu Arg Glu
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<210> 3925
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<210> 3926
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1 5

<210> 3927

<211> 7
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1 5

<210> 3928
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1 5

<210> 3929
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1 5

<210> 3930
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1 5

<210> 3931
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<210> 3932
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<210> 3933
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<210> 3934
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<210> 3936
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<210> 3937
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1 5

<210> 3938
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Gln Ser Gly Asn Leu Ala Arg
1 5

<210> 3939
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<210> 3940
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Arg Ser Asp Glu Leu Arg Glu
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<210> 3941

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<210> 3942

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<210> 3943

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<210> 3944

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<210> 3945
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1 5

<210> 3946
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1 5

<210> 3947
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1 5

<210> 3948
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1 5

<210> 3949
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Arg Ser Asp Asn Leu Ala Arg

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<210> 3950

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Arg Ser Asp His Leu Ser Arg

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<210> 3952

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Arg Ser Asp His Leu Ser Arg

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<223> Description of Artificial Sequence: example ZFP

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Arg Ser Asp Asn Leu Arg Glu

1

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<210> 3955
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Gln Ser Val His Leu Gln Ser
1 5

<210> 3956
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Gln Ser Gly His Leu Thr Thr
1 5

<210> 3957
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Arg Ser Asp Asp Leu Thr Lys
1 5

<210> 3958
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Arg Ser Asp Asp Leu Ala Ser
1 5

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Gln Ser Gly Asn Leu Thr Lys
1 5

<210> 3962
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Arg Ser Asp His Leu Thr Thr

1

5

<210> 3963

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Gln Ser Gly His Leu Gln Arg

1

5

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Gln Ser Gly His Leu Gln Arg

1

5

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Gln Ser Gly Ala Leu Thr Gln

1

5

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<223> Description of Artificial Sequence: example ZFP

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Asp Arg Ser His Leu Thr Lys

1

5

<210> 3967

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Arg Ser His His Leu Thr Thr
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<210> 3968

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Arg Ser Ser His Leu Thr Thr
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Gln Ser Gly His Leu Gln Arg
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<210> 3972

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Arg Ser Asp His Leu Arg Glu
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Gln Arg Ala His Leu Ala Arg
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<210> 3974

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Gln Ser Gly Ser Leu Thr Arg
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<210> 3975

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Arg Ala Asp Ala Leu Met Val
1 5

<210> 3976

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1 5

<210> 3977
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<210> 3978
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